

*If you are using a printed copy of this procedure, and not the on-screen version, then you **MUST** make sure the dates at the bottom of the printed copy and the on-screen version match. The on-screen version of the Collider-Accelerator Department Procedure is the Official Version. Hard copies of all signed, official, C-A Operating Procedures are kept on file in the C-A ESHQ Training Office, Bldg. 911A*

## C-A OPERATIONS PROCEDURES MANUAL

### ATTACHMENT

4.120.12.a 12 O'clock (PEER 13) Critical Device & Permit Link Tests

C-A-OPM Procedures in which this Attachment is used.		
4.120.12		

### Hand Processed Changes

<u>HPC No.</u>	<u>Date</u>	<u>Page Nos.</u>	<u>Initials</u>
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Approved: \_\_\_\_\_ *Signature on File*  
 Collider-Accelerator Department Chairman \_\_\_\_\_ Date

V. Castillo

#### 4.120.12.a 12 O'clock (PEER 13) Critical Device & Permit Link Tests

### PASS ANNUAL ACCEPTANCE TEST PROTOCOL

Division A Software Filename and Checksum: Title: \_\_\_\_\_ Checksum: \_\_\_\_\_

Division B Software Filename and Checksum: Title: \_\_\_\_\_ Checksum: \_\_\_\_\_

**Initial testing complete:**

Test Team Leader's Name (Print): \_\_\_\_\_ Life Number: \_\_\_\_\_

Test Team Leader's Name (Sign): \_\_\_\_\_ Date: \_\_\_\_/\_\_\_\_/\_\_\_\_

**Acceptance test procedure complete (following repairs and retesting if required):**

Test Team Leader's Name (Print): \_\_\_\_\_ Life Number: \_\_\_\_\_

Test Team Leader's Name (Sign): \_\_\_\_\_ Date: \_\_\_\_/\_\_\_\_/\_\_\_\_

**Test results reviewed by:**

Safety Section Head's Name (Print): \_\_\_\_\_ Life Number: \_\_\_\_\_

Safety Section Head's Name (Sign): \_\_\_\_\_ Date: \_\_\_\_/\_\_\_\_/\_\_\_\_

**Test results accepted by Radiation Safety Committee:**

RSC Member's Name (Print): \_\_\_\_\_ Life Number: \_\_\_\_\_

RSC Member's Name (Sign): \_\_\_\_\_ Date: \_\_\_\_/\_\_\_\_/\_\_\_\_

## 1.1 Setup and test of Critical Devices and Permit Link response to a loss of PASS enable

<input type="checkbox"/>	<b>SET</b>	<b>CD Key switch</b> for	<b>XY ARC</b>
<input type="checkbox"/>	<b>VERIFY</b>	<b>CD Key switch</b> is set for	<b>XY ARC</b>
<input type="checkbox"/>	<b>PLACE</b>	<b>Peer 13 in Mode 8</b>	
<input type="checkbox"/>	<b>VERIFY</b>	<b>Peer 13</b> is in <b>Restricted Access</b>	<b>MODE 8</b>
<input type="checkbox"/>	<b>VERIFY</b>	MCR sees <b>RHIC Inj. CD</b> on CD page	<b>DISABLED</b>
<input type="checkbox"/>	<b>VERIFY</b>	MCR sees <b>RHIC Injn inhibit Div A</b> <input type="checkbox"/> & <b>Div B</b> <input type="checkbox"/>	<b>ON</b>
<input type="checkbox"/>	<b>VERIFY</b>	MCR sees <b>RHIC ring CD</b> , (B/S 1,2, & 3) on CD page	<b>DISABLED</b>
<input type="checkbox"/>	<b>VERIFY</b>	MCR sees <b>RHIC ring inhibit Div A</b> <input type="checkbox"/> & <b>Div B</b> <input type="checkbox"/> (BS 1&2)	<b>ON</b>
<input type="checkbox"/>	<b>VERIFY</b>	MCR sees <b>RHIC Rchback latch Div A</b> <input type="checkbox"/> & <b>Div B</b> <input type="checkbox"/> (BS3)	<b>OFF</b>
<input type="checkbox"/>	<b>VERIFY</b>	MCR sees <b>RHIC Permit Link Div A</b> <input type="checkbox"/> & <b>Div B</b> <input type="checkbox"/>	<b>DISABLED</b>
<input type="checkbox"/>	<b>PLACE</b>	<b>Peer 13 in Mode 16</b>	
<input type="checkbox"/>	<b>VERIFY</b>	<b>Peer 13</b> is in <b>Controlled Access</b>	<b>MODE 16</b>
<input type="checkbox"/>	<b>VERIFY</b>	<b>Peer 13 gate: 1GS1</b> is	<b>CLOSED</b>
	<b>RESET</b>	<b>Peer 13 gates:</b> 11GS1, 11EL1, 11GI1, 11MD1, 11MD2, 11ED1, 12MD1, 12MD2, 12GE1, 12GI1, 12EL1, 12ED1	
<input type="checkbox"/>	<b>VERIFY</b>	<b>Peer 13 gates:</b> <input type="checkbox"/> 11GS1, <input type="checkbox"/> 11EL1, <input type="checkbox"/> 11GI1, <input type="checkbox"/> 11MD1, <input type="checkbox"/> 11MD2, <input type="checkbox"/> 11ED1, <input type="checkbox"/> 12MD1, <input type="checkbox"/> 12MD2, <input type="checkbox"/> 12GE1, <input type="checkbox"/> 12GI1, <input type="checkbox"/> 12EL1, <input type="checkbox"/> 12ED1, are	<b>RESET</b>
<input type="checkbox"/>	<b>SWEEP</b>	<b>Peer 13 Zones:</b> 11Z1, 12Z1, 12Z2	
<input type="checkbox"/>	<b>VERIFY</b>	<b>Peer 13 Zones:</b> <input type="checkbox"/> 11Z1, <input type="checkbox"/> 12Z1, <input type="checkbox"/> 12Z2 are	<b>SWEPT</b>
<input type="checkbox"/>	<b>PLACE</b>	<b>Peer 13 in Mode 24</b>	
<input type="checkbox"/>	<b>VERIFY</b>	<b>Peer 13</b> is in <b>No Access</b>	<b>MODE 24</b>
<input type="checkbox"/>	<b>VERIFY</b>	MCR sees <b>RHIC Inj. CD</b> on CD page	<b>DISABLED</b>
<input type="checkbox"/>	<b>VERIFY</b>	MCR sees <b>RHIC Injn inhibit Div A</b> <input type="checkbox"/> & <b>Div B</b> <input type="checkbox"/>	<b>ON</b>
<input type="checkbox"/>	<b>SET</b>	<b>RHIC Primary Beamstop command</b>	<b>OUT</b>
<input type="checkbox"/>	<b>VERIFY</b>	<b>RHIC Primary Beamstop command</b> is	<b>OUT</b>
<input type="checkbox"/>	<b>VERIFY</b>	MCR sees <b>RHIC ring CD</b> , (B/S 1,2, & 3)	<b>DISABLED</b>
<input type="checkbox"/>	<b>VERIFY</b>	MCR sees <b>RHIC ring inhibit Div A</b> <input type="checkbox"/> & <b>Div B</b> <input type="checkbox"/> (BS 1&2)	<b>OFF</b>
<input type="checkbox"/>	<b>VERIFY</b>	MCR sees <b>RHIC Rchback latch Div A</b> <input type="checkbox"/> & <b>Div B</b> <input type="checkbox"/> (BS3)	<b>OFF</b>
<input type="checkbox"/>	<b>VERIFY</b>	MCR sees <b>RHIC Permit Link Div A</b>	<b>ENABLED</b>
<input type="checkbox"/>	<b>VERIFY</b>	MCR sees <b>RHIC Permit Link Div B</b>	<b>DISABLED</b>
	<b>TURN</b>	Any key in the <b>RHIC Key Tree</b>	
<input type="checkbox"/>	<b>VERIFY</b>	MCR sees <b>Peer 13</b> go to	<b>MODE 2</b>
<input type="checkbox"/>	<b>VERIFY</b>	MCR sees <b>RHIC Inj. CD</b> on CD page	<b>DISABLED</b>
<input type="checkbox"/>	<b>VERIFY</b>	MCR sees <b>RHIC Injn CD inhibit Div A</b> <input type="checkbox"/> & <b>Div B</b> <input type="checkbox"/>	<b>ON</b>
<input type="checkbox"/>	<b>VERIFY</b>	MCR sees <b>RHIC ring CD</b> , (B/S 1,2, & 3) on CD page	<b>DISABLED</b>
<input type="checkbox"/>	<b>VERIFY</b>	MCR sees <b>RHIC ring inhibit Div A</b> <input type="checkbox"/> & <b>Div B</b> <input type="checkbox"/> (BS 1&2)	<b>ON</b>
<input type="checkbox"/>	<b>VERIFY</b>	MCR sees <b>RHIC Rchback latch Div A</b> <input type="checkbox"/> & <b>Div B</b> <input type="checkbox"/> (BS3)	<b>OFF</b>

- ☐ **VERIFY**      MCR sees RHIC Permit Link Div A ☐ & Div B ☐      **DISABLED**
- ☐ **PLACE**      Peer 13 in Mode 8
- ☐ **VERIFY**      Peer 13 is in Restricted Access      **MODE 8**
- ☐ Check for acceptance of Setup and test of Critical Devices and Permit Link response to a loss of PASS enable

**END OF TEST PROCEDURE**

**TTL: Sign for completion of initial testing:** \_\_\_\_\_

**Date:** \_\_\_\_/\_\_\_\_/\_\_\_\_

**TTL: Sign for completion of final testing:** \_\_\_\_\_

**Date:** \_\_\_\_/\_\_\_\_/\_\_\_\_